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Part I: Overview of Business

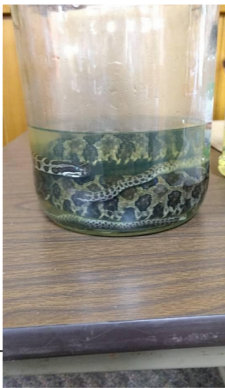
- Iowa Department of Natural Resources ~ Sweet Marsh Wildlife Management Area
- Mission:* To conserve & enhance our natural resources in cooperation with individuals and organizations to improve the quality of life in Iowa and ensure a legacy for future generations

Part II: Job Specifics

- Sweet Marsh is a wildlife area that is funded through excise taxes on sporting arms and ammunition and as such is managed as a wildlife area
- Within the area are known populations of threatened & endangered plants and animals, also a Bird Conservation Area

Part III: Introduce the Problem

- While certain techniques for water management are good for many species, there are those that significantly harm or help threatened and endangered species
  - Knowledge about management techniques and timing are crucial



Part IV: Background

- Threatened & Endangered
- State and Federal Lists
- Habitat and Species Needs as well as data/research on specific animals

Two Species of Focus:  
Eastern Massasauga Rattlesnake  
[https://www.iowaherps.com/species/sistrurus\\_catenatus](https://www.iowaherps.com/species/sistrurus_catenatus)

Wood Turtle  
[https://www.iowaherps.com/species/glyptemys\\_insculpta](https://www.iowaherps.com/species/glyptemys_insculpta)

Part V: Business Solution

- What management plans will work with regulations for threatened & endangered species to gain the maximum amount of wildlife benefits to include T&E species?

Part VI: Student Solutions

- Students will choose one of the two species to research and create a management plan to ensure the continued existence of the species OR Students will compare how reintroduced species (ie. wild turkey or river otter) have succeeded and why EMR and wood turtles have not